010801.tag.043 Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal Antibody in the Presence or Absence of 20 mM Gly-Gly (1% HSA)

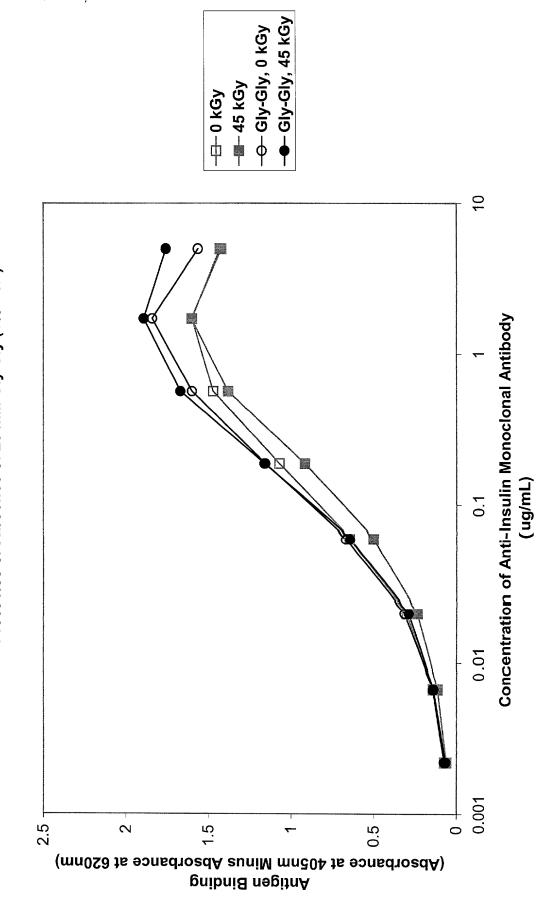


FIGURE 1A

050701.iv.028 Gamma Irradiation of Freeze-Dried Anti-Human Ig, Lambda Light Chain, in the Presence or Absence of 20 mM Gly-Gly

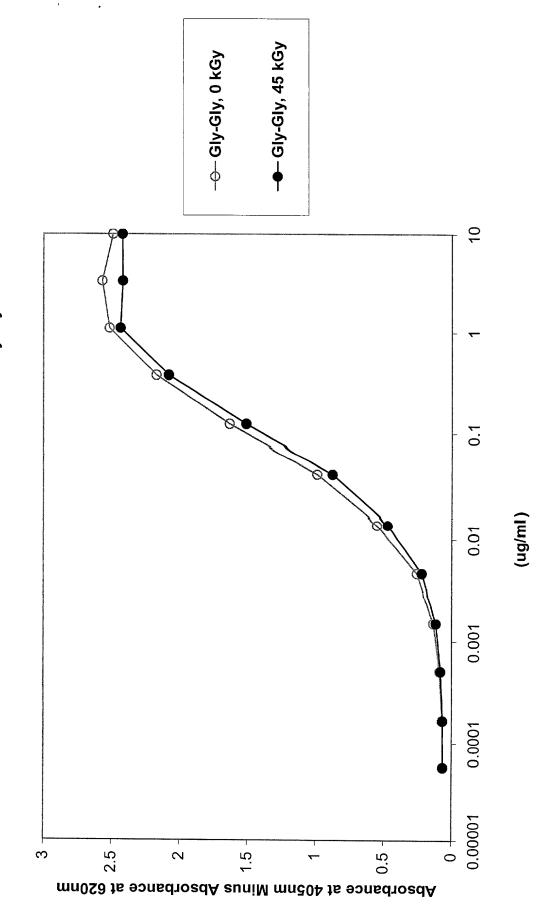
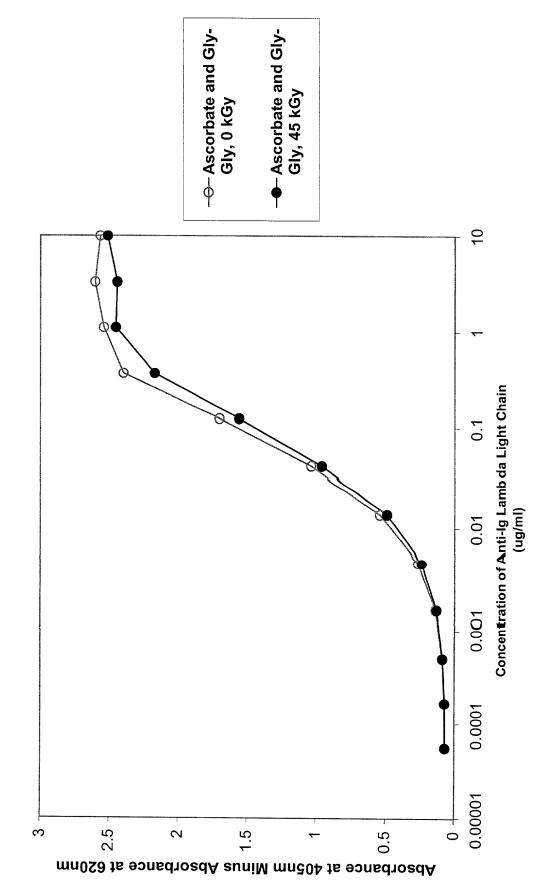


FIGURE 13

050701.iv.028 Gamma Irradiation of Freeze-Dried Anti-Human Ig, Lambda Light Chain, in the Presen ce or Absence of 20 mM Ascorbate and 20 mM Gly-Gly



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010401alm 039 Gamma Irradiætion of Freeze-Dried Anti-Insulin Monoclonal Antibody in the Presence or Absence of 20 mM Gly-Gly (and 1% BSA)

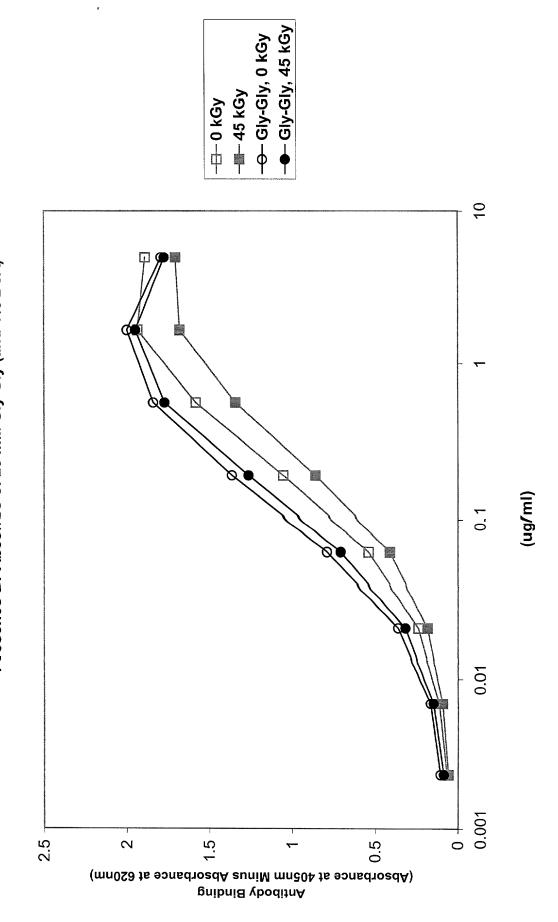
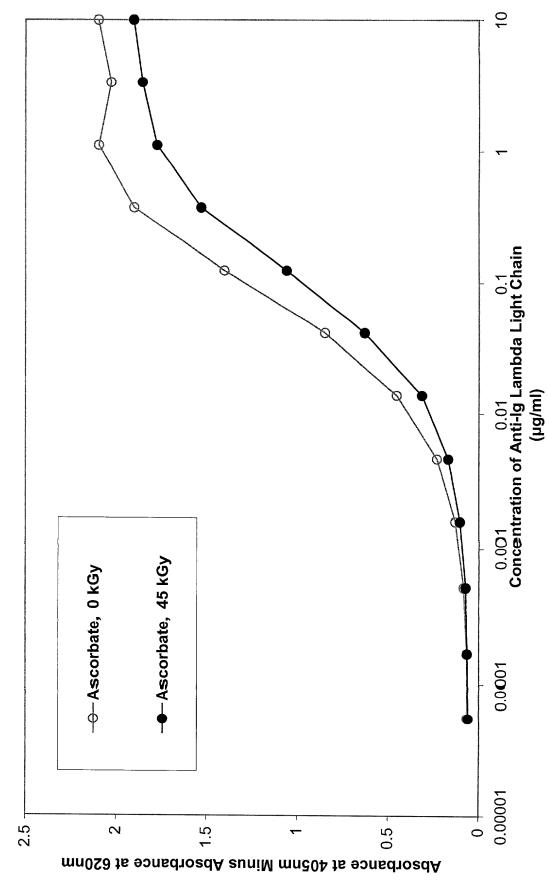


FIGURE 2A

050201.iv.027a Garnma Irradiation of Liquid Anti-Human Ig, Lambda Light Chain in the Presence or Absence of 200mM Ascorbate



82 27 mid

050201.iv.027a Gamma Irradiation of Liquid Anti-Human Ig, Lambda Light Chain in the Presence or Absence of 200mM Ascorbate and 200mM Gly-Gly

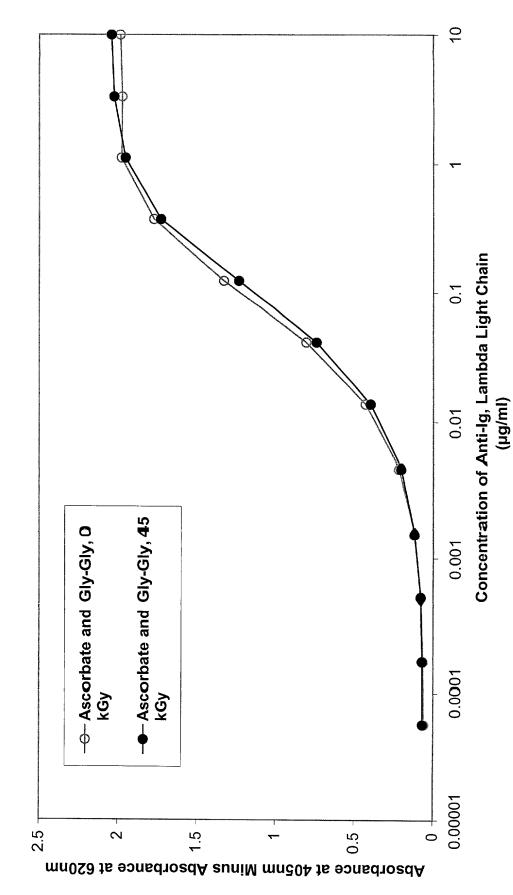
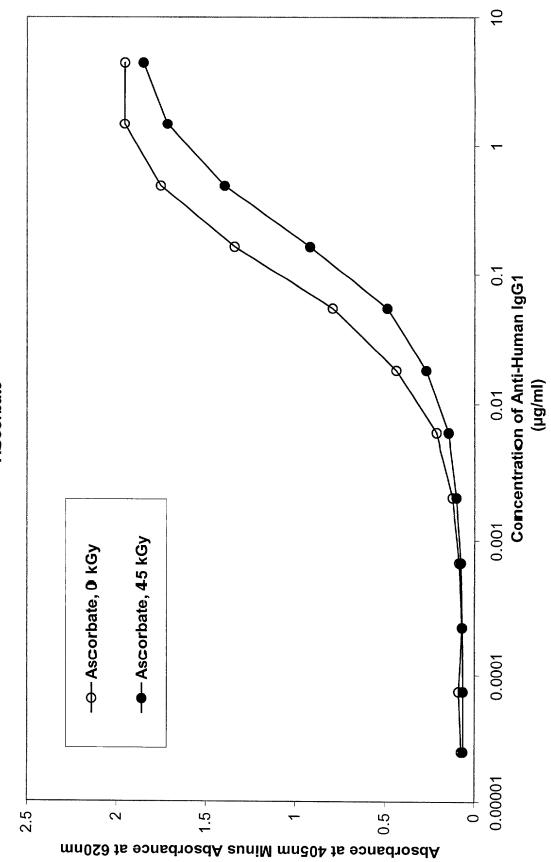


FIGURE 2C

050201.iv.027b Gamma Irradiation of Liquid Anti-Human IgG1 in the Presence of 200mM **Ascorbate**



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050201.iv.027b Gamma Irradiation of Liquid Anti-Human IgG1 in the Presence of 200mM Ascorbate and 200mM Gly-Gly

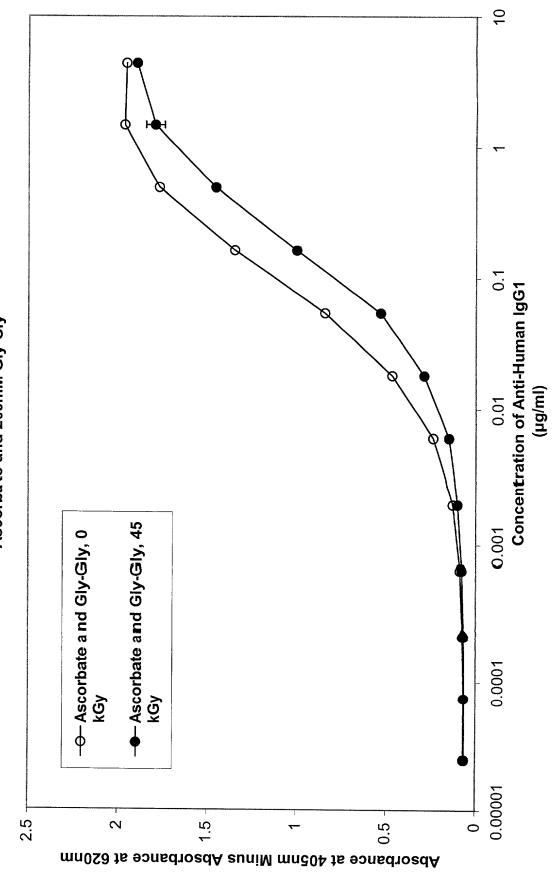
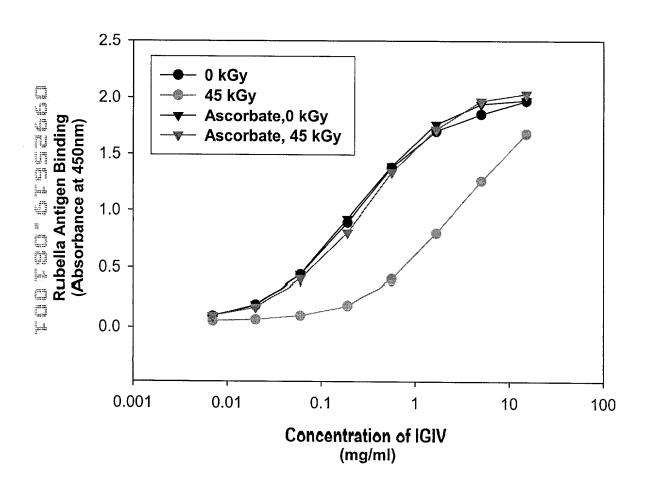
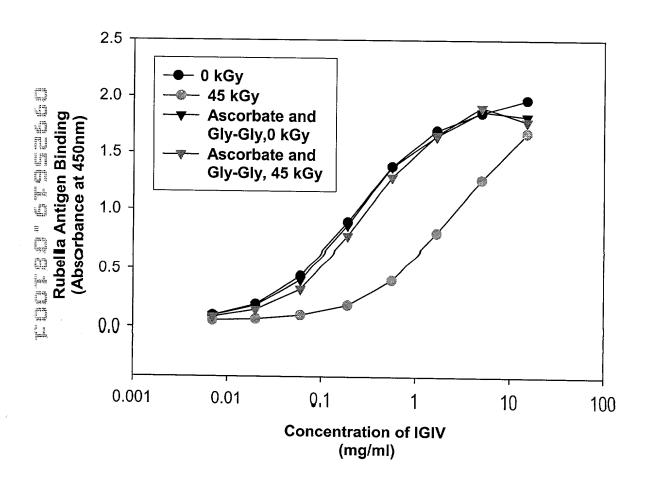


FIGURE ZE

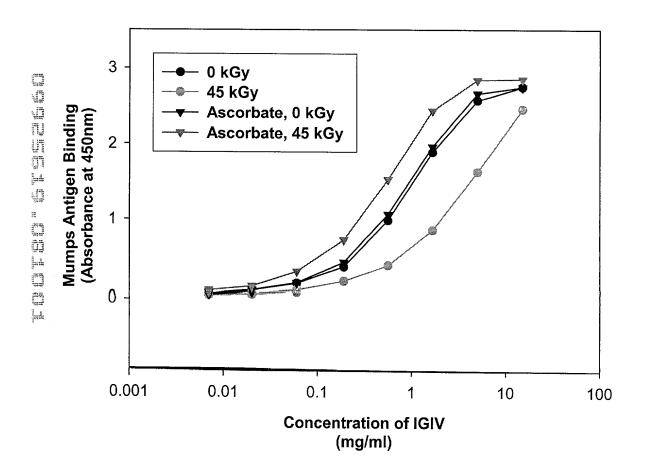
011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate Using Rubella IgG Assay



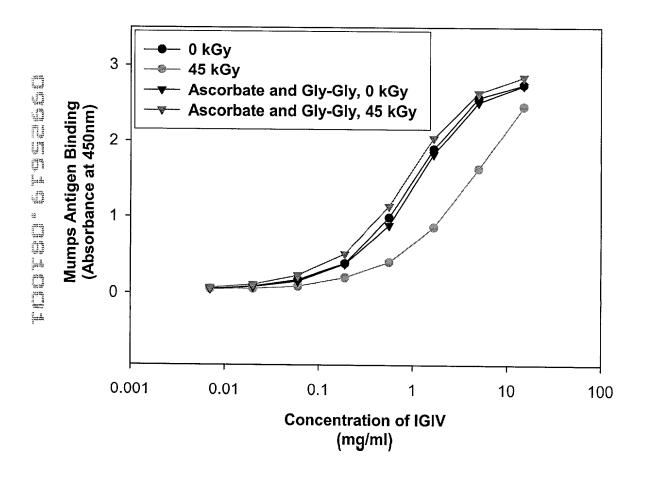
011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using Rubella IgG Assay



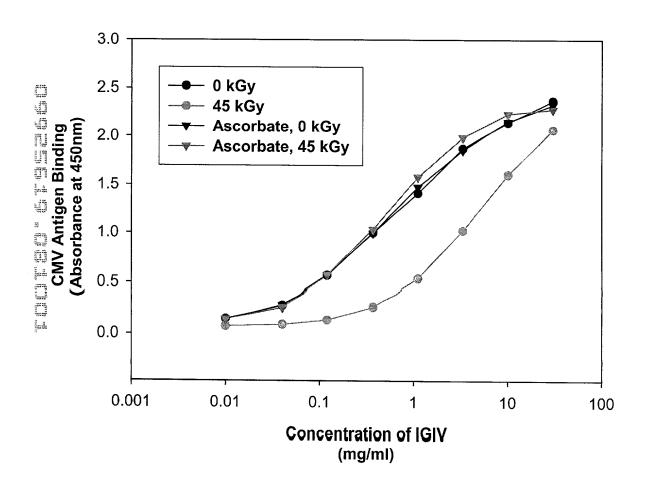
011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate Using Mumps Assay



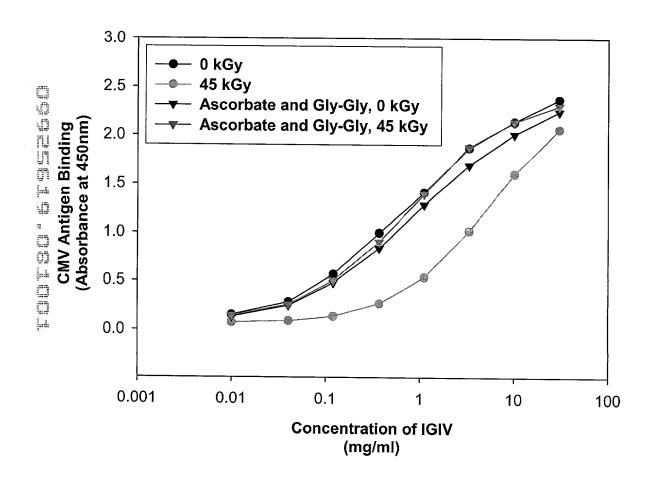
011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using Mumps Assay



011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate Using CMV Assay

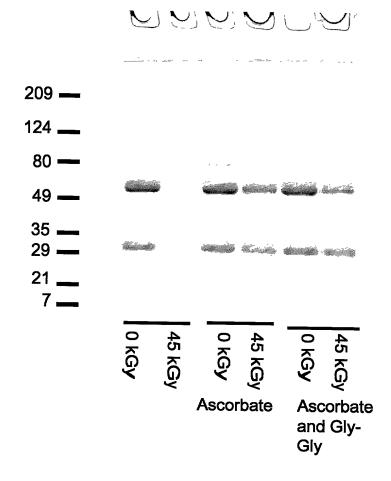


011501.tag.050 and 020902.crh.042 Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using CMV Assay



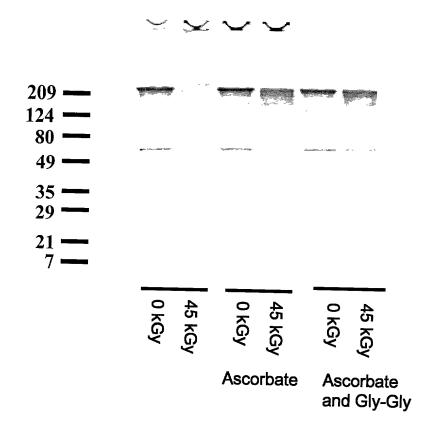
011501.tag.050 / 020901.crh.042 (020501) SDS-PAGE of Liquid IGIV

Liquid IGIV, Reduced 5-15%



011501.tag.050 / 020901.crh.042 (020501) SDS-PAGE of Liquid IGIV

Liquid IGIV, Non-Reduced 5-15%



Antibody at a High Dose Rate (30 kGy/h) in the Presence or Absence of 20 mM 011201.tag.046 Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal

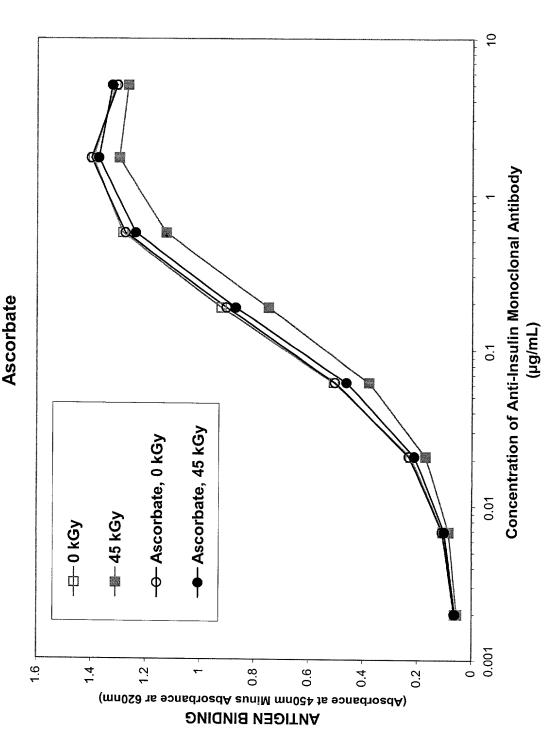


FIGURE 4A

1.6

4.

1.2

Antibody at a High Dose Rate (30 kGy/h) in the Presence or Absence of 20 mM 011201.tag.046 Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal **Gly-Gly** 0.1 → Gly-Gly, 0 kGy 0.01 一一 0 kGy

(mn0Sð

(Absorbance at 405nm Minus Absorbance at ANTIGEN BINDING

9.0

0.4

0.2

FIGURE 4B

10

Concentration of Anti-Insulin Monoclonal Antibody

0.001

Ö

(hg/mL)

High Dose Rate 30 kGy/h in the Presence or Absence of 20 mM Ascorbate and 20 mM Gly-Gly 011201.tag.046 Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal Antibody at a

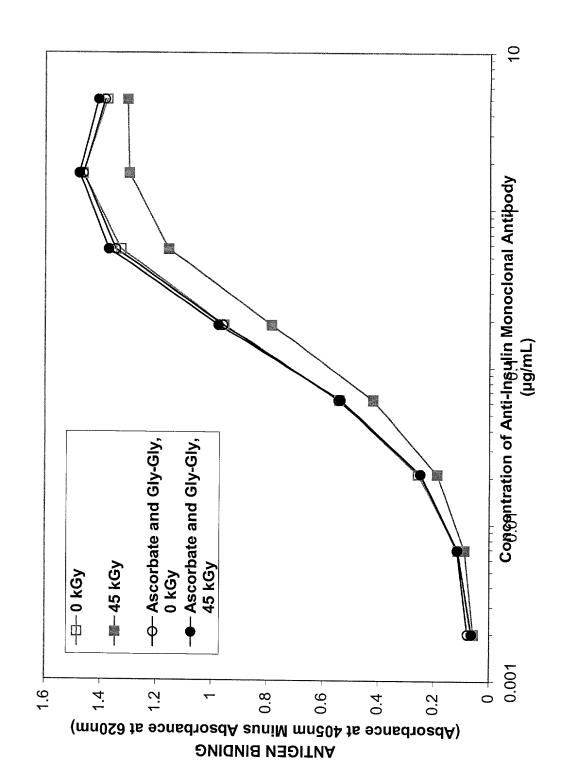
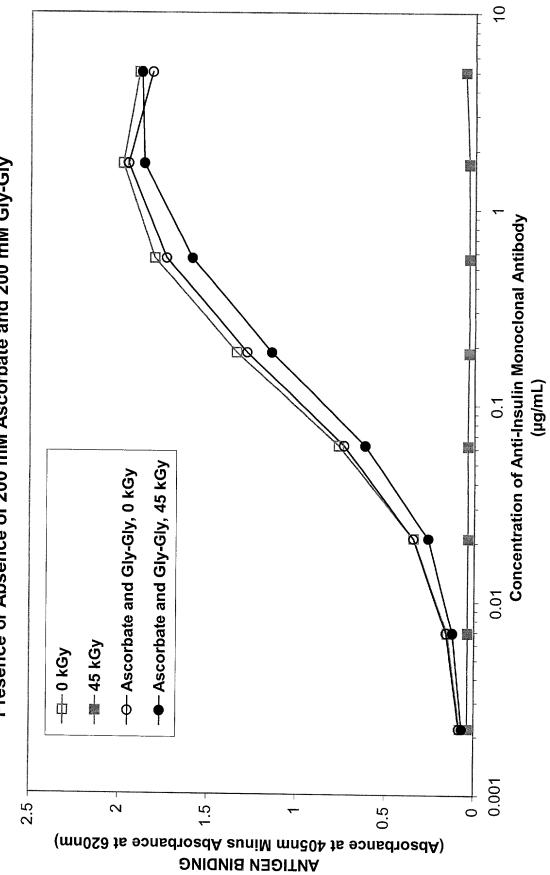


FIGURE 4C

9 011501.tag.047 Gamma Irradiation of Anti-Insulin Monoclonal Antibody in the Concentration of Anti-Insulin Monoclonal Antibody Presence or Absence of 200 mM Ascorbate ———Ascorbate, 45 kGy - → Ascorbate, 0 kGy 0.01 -**1** -45 kGy — 0 kGy 0.001 2.5 0 0 1.5 0.5 (Absorbance at 405nm Minus Absorbance at 620nm) **ANTIGEN BINDING**

FILLDRE SA

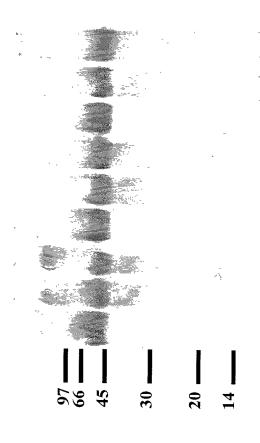
011501.tag.047 Gamma Irradiation of Anti-Insulin Monoclonal Antibody in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly



FILLURE SB

Nonreduced

Reduced



5.4 kGy/hr, 45 kGy 1.7 kGy/hr, 45 kGy 0 kGy	Ascorbate and Gly-Gly
5.4 kGy/hr, 45 kGy 1.7 kGy/hr, 45 kGy 0 kGy	Ascorbate
5.4 kGy/hr, 45 kGy	
1.7 kGy/hr, 45 kGy 0 kGy	



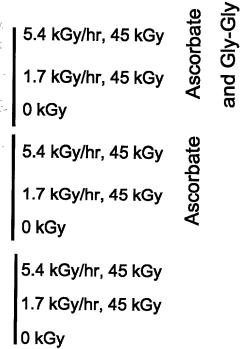
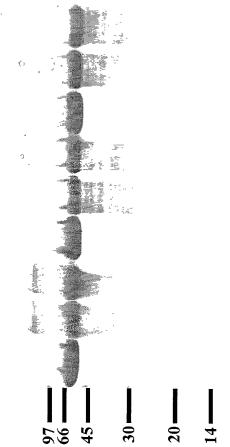


FIGURE 6A

052201.slf.015 SDS-PAGE for a Sulfatase

Reduced



5.4 kGy/hr, 45 kGy 1.7 kGy/hr, 445 kGy 0 kGy	Ascorbate and Gly-Gly
5.4 kGy/hr, 45 kGy 1.7 kGy/hr, 45 kGy 0 kGy	Ascorbate
5.4 kGy/hr, 45 kGy 1.7 kGy/hr, 45 kGy	

En sursig

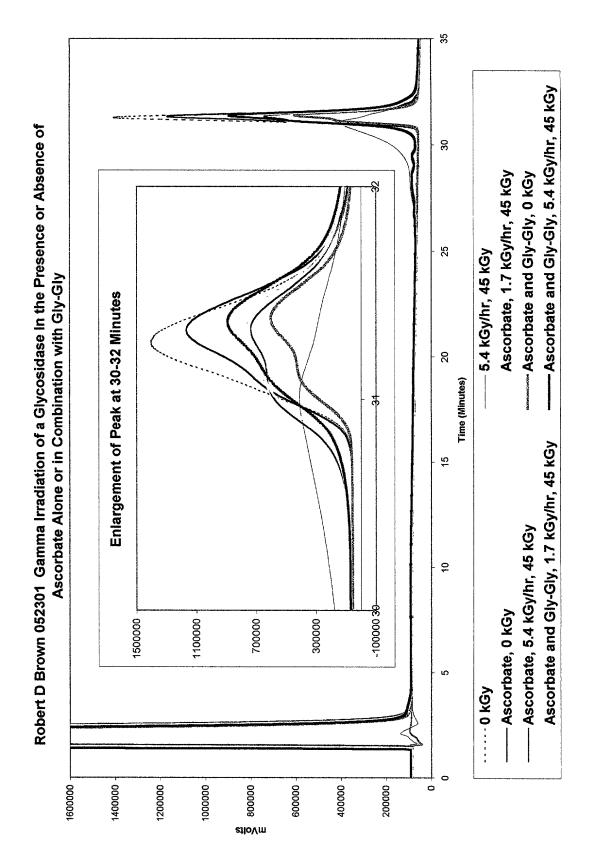


FIGURE 7

the Presence or Absence of 200 mM Ascorbate Alone or in Combination With 200 mM Gly-Gly CLS 5000 061401alm 065 Gamma Irradiation of Liquid Anti-Insulin Monoclonal Antibody in

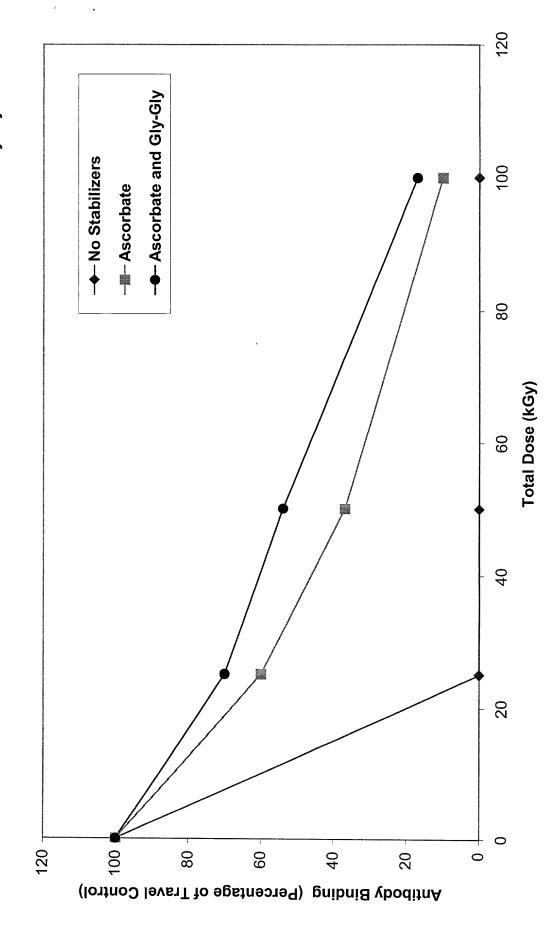
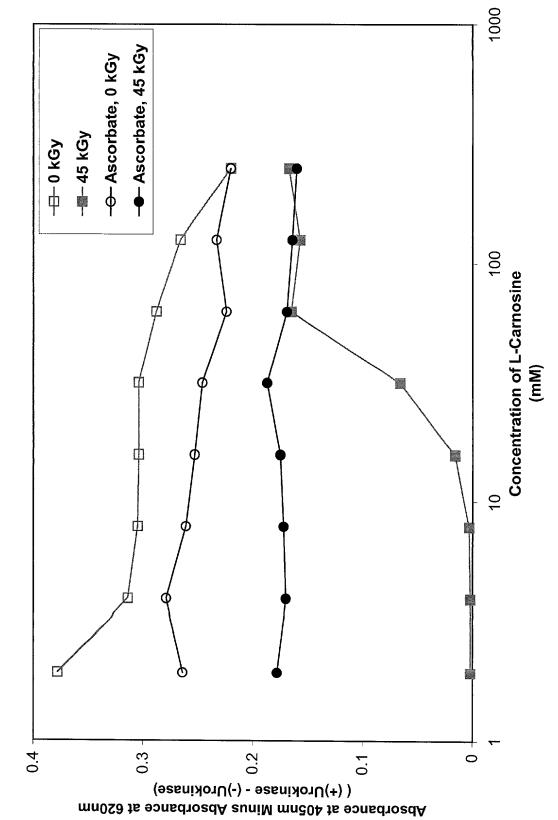


FIGURE 8

072100alm 006 Gamma Irradiation of Liquid Urokinase, With L-Carnosine, at 45 kGy in the Presence or Absence of 50mM Ascorbate



072800alm 009 Gamma Irradiation of Liquid Urokinase in the Presence or Absence of Anserine

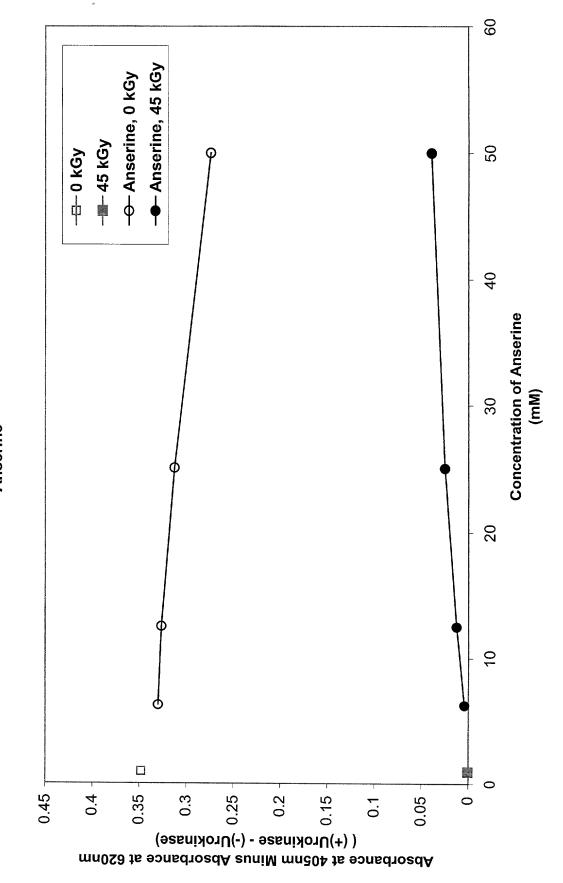
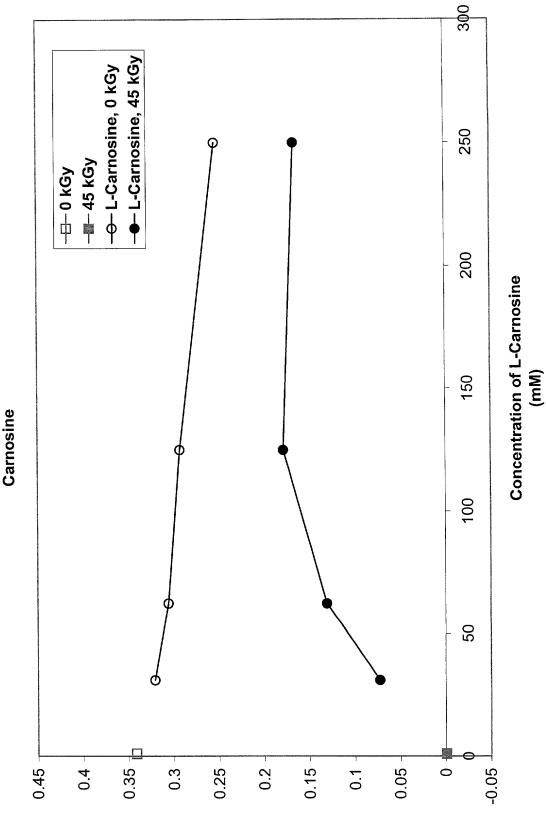


FIGURE 10

080400alm 011 Gamma Irradiation of Liquid Urokinase in the Presence or Absence of L-

Absorbance at 405nm Minus Absorbance at 620nm (+)Urokinase)



— L-Carnosine 081400alm 013 Gamma Irradiation of Immobilized Anti-Insulin Monoclonal Antibody, to 45 -M-PBS kGy, in the Presence or Absence of 100 mM L-Carnosine Concentration of Antigen (ng/ml) T 0 (Irradiated / Unirradiated) Percent Protection

F160166 12

092500alm 018 Gamma Irradiation of Immobilized Monoclonal Antibody in the Presence or Absence of L-Carnosine and Ascorbate

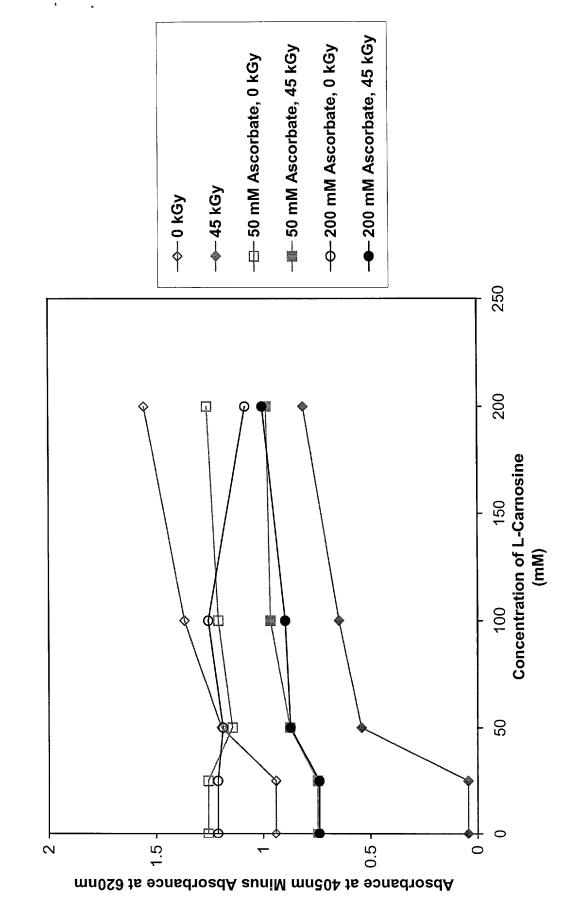


FIGURE 13

111300.rrc.017 Gamma Irradiation of Freeze-Dried FVIII in the Presence or Absence L-Carnosine Alone or in Combination with Ascorbate

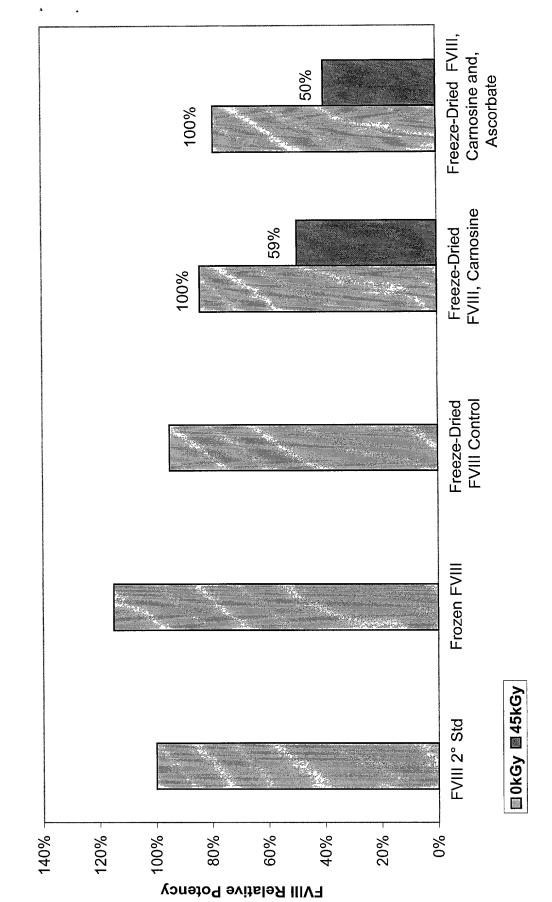


FIGURE 14